

- SAW DUPLEXER For Band31
- Revision 0: March 2014

Electrical Characteristics

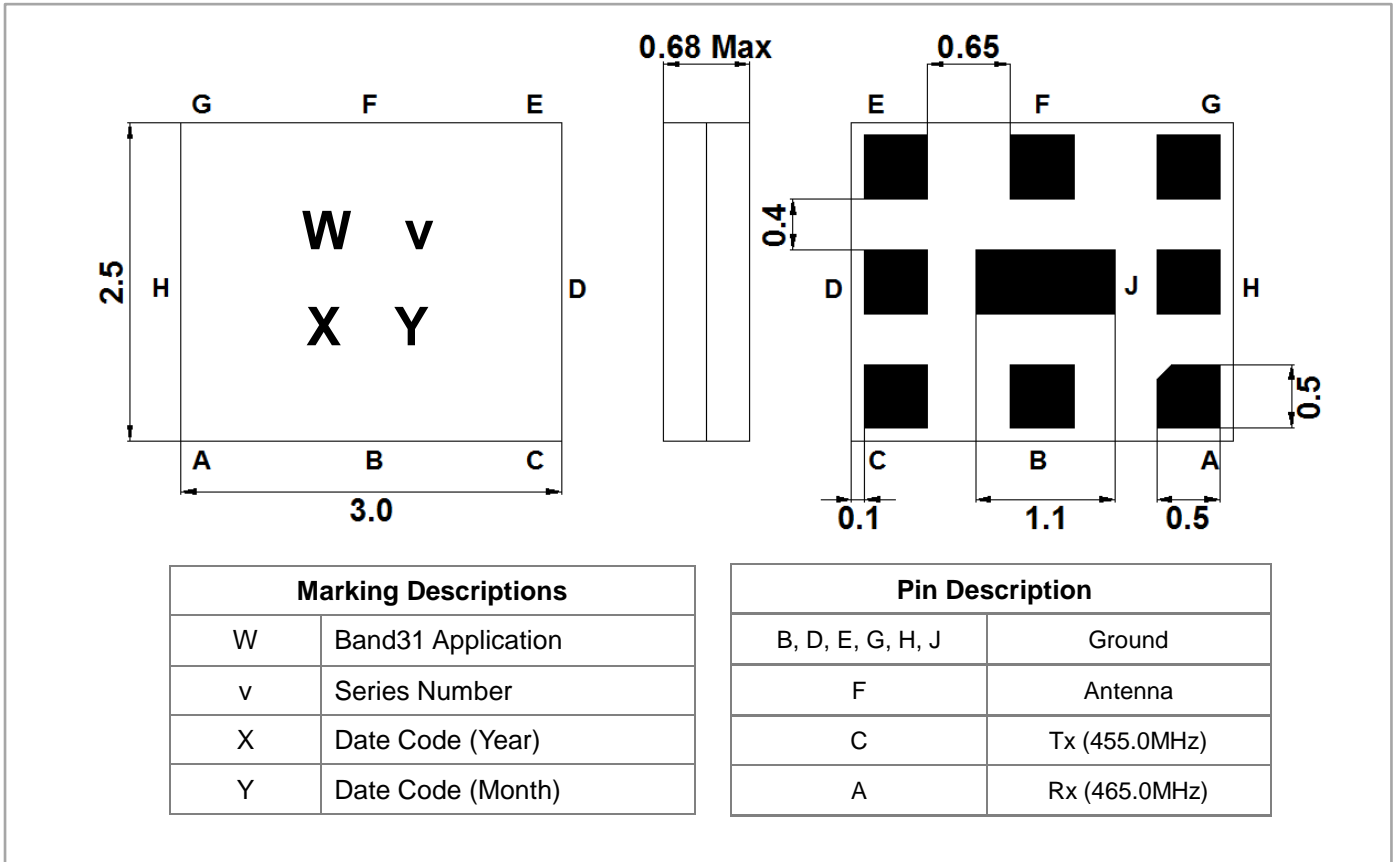
MAXIMUM RATING				
PARAMETERS DESCRIPTION	UNIT	MINIMUM	TYPICAL	MAXIMUM
Operating Temperature Range	°C	-20	-	+90
Storage Temperature Range	°C	-40	-	+90
Maximum DC Voltage	V	-	0	-
Input Power Level	dBm	28	-	30
Antenna Impedance(single ended) ⁽¹⁾	Ω	50		
Tx Impedance(single ended) ⁽¹⁾	Ω	50		
Rx Impedance(single ended) ⁽¹⁾	Ω	50		
Package type & size	C80			
Length x Width	mm ²	-	3.0 x 2.5	-
Height	mm	-	0.68	-

ELECTRICAL SPECIFICATION					
PARAMETERS	CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
Tx (455.0MHz)→ Ant		Specifications			
Insertion Loss within 452.75 ~ 457.25 MHz Avg over full inner 4.5 MHz		dB	-	1.2	2.5
Amplitude Ripple within 452.75 ~ 457.25 MHz		dB _{p-p}	-	0.8	1.5
VSWR(Tx Port) within 452.75 ~ 457.25 MHz		-	-	1.6	2.0
VSWR(Ant. Port) within 452.75 ~ 457.25 MHz		-	-	1.6	2.0
Absolute Attenuation:					
10.0 ~ 430.0 MHz		dB	25	32	-
442.75 ~ 447.25 MHz (Rx Image Band)		dB	25	35	-
462.75 ~ 467.25 MHz (Rx Band Rejection)		dB	45	57	-
480.0 ~ 1100.0 MHz (Including 2 nd harmonic)		dB	25	32	-
1200.0 ~ 1500.0 MHz (Including 3 rd harmonic)		dB	30	35	-
1500.0 ~ 1600.0 MHz (Including GPS/GLONASS)		dB	35	37	-
1600.0 ~ 4000.0 MHz (Including DCS band)		dB	25	33	-
4000.0 ~ 8500.0 MHz		dB	15	23	-

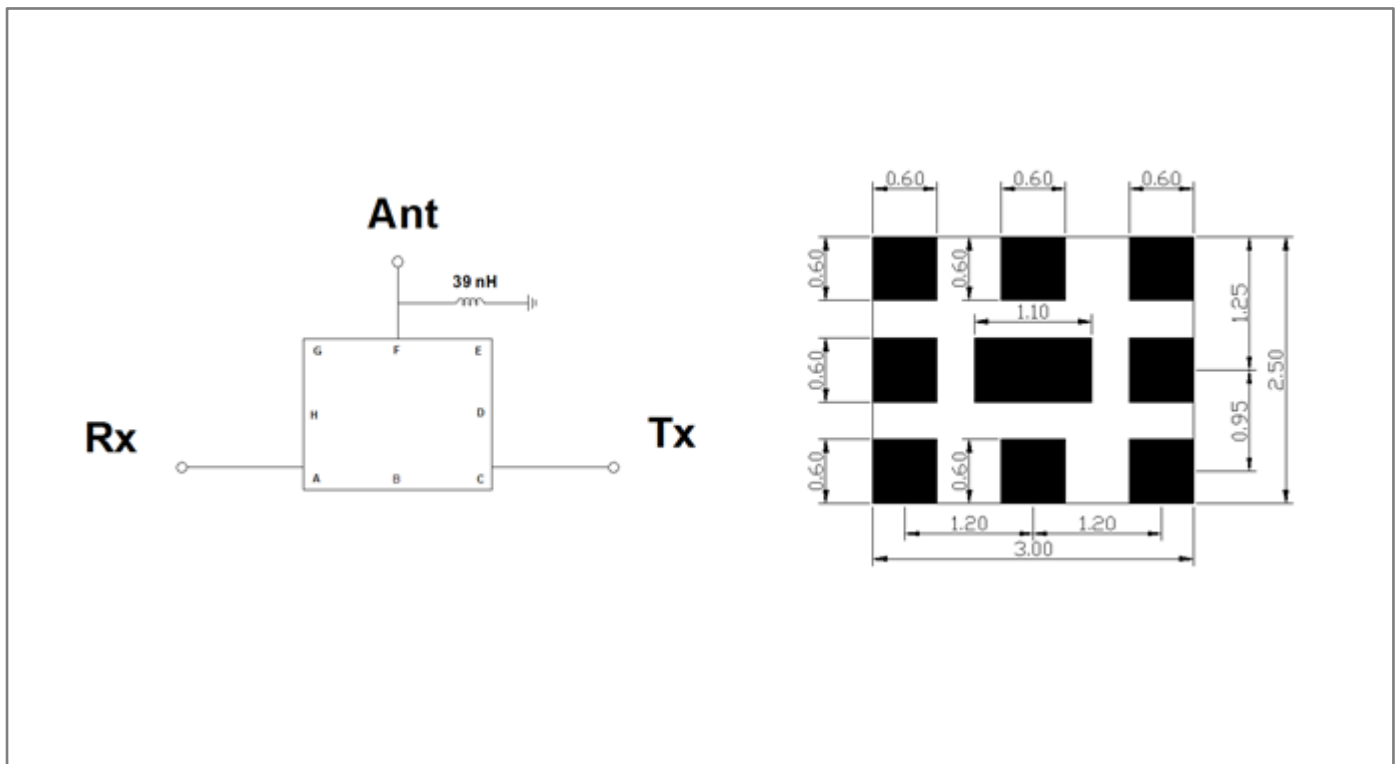
PARAMETERS	CONDITION [MHZ]	UNIT	MINIMUM	TYPICAL	MAXIMUM
Ant → Rx (465.0MHz)		Specifications			
Insertion Loss within 462.75 ~467.25 MHz Avg over full inner 4.5 MHz		dB	-	1.8	2.5
Amplitude Ripple within 462.75 ~467.25 MHz		dB _{p-p}	-	0.6	1.5
VSWR (Rx Port) within 462.75 ~ 467.25 MHz		-	-	1.8	2.1
VSWR (Ant. Port) within 462.75 ~ 467.25 MHz		-	-	1.8	2.1
Absolute Attenuation:					
10.0 ~ 451.0 MHz		dB	40	47	-
452.75 ~ 457.25 MHz (Tx Band Rejection)		dB	48	51	-
475.0 ~ 480.0 MHz (Tx Image Rejection)		dB	30	40	-
481.0 ~ 8500.0 MHz		dB	5	9	-
Tx → Rx		Specifications			
Isolation within 452.75 ~457.25 MHz Avg over full inner 4.5 MHz		dB	48	53	-
Isolation within 462.75 ~467.25 MHz Avg over full inner 4.5 MHz		dB	55	65	-

Notes: (1) With Matching Network.

Package Dimensions

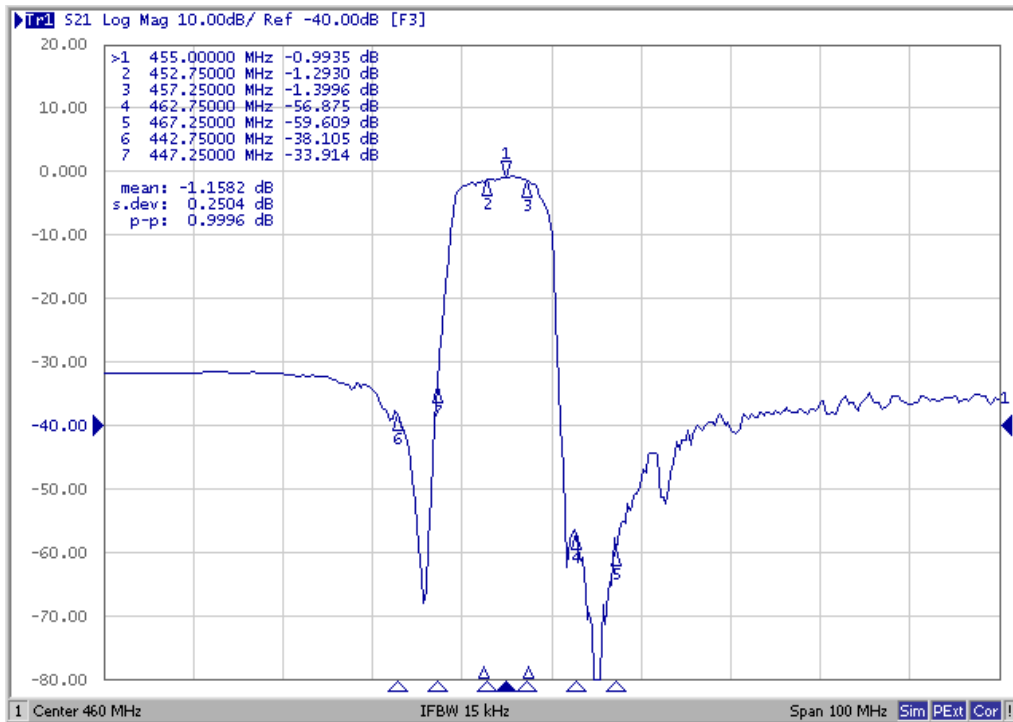


Testing Environment

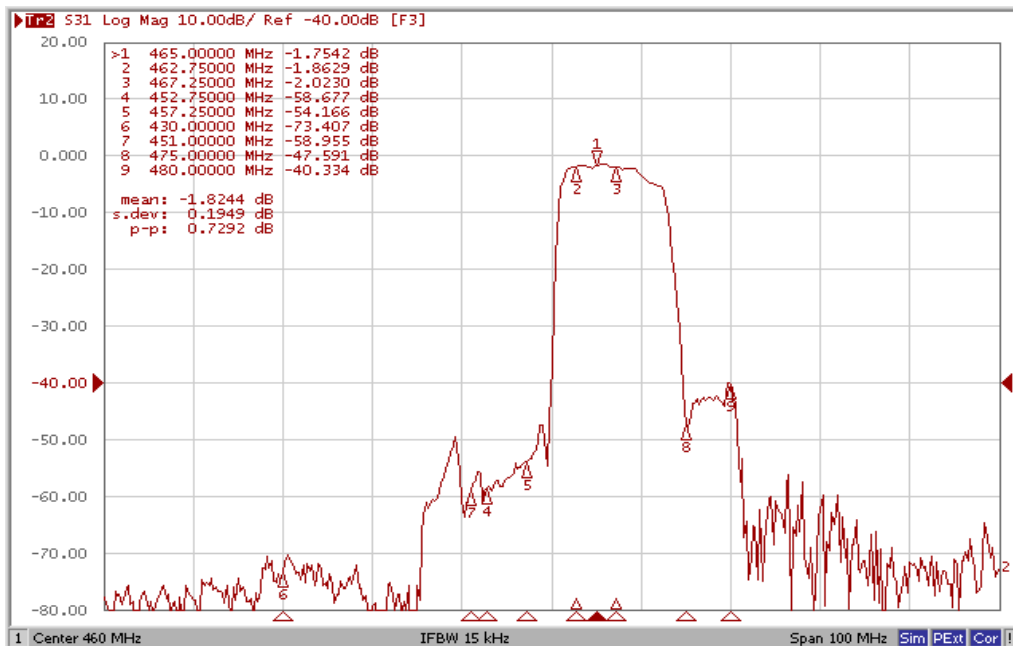


Frequency Characteristics

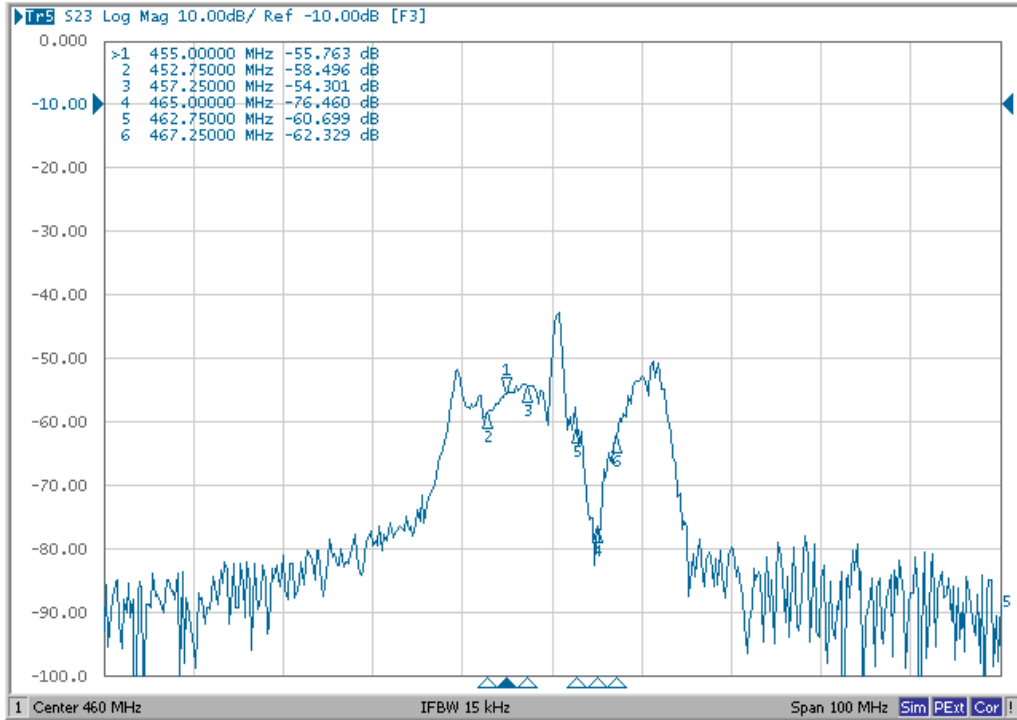
Tx to Ant



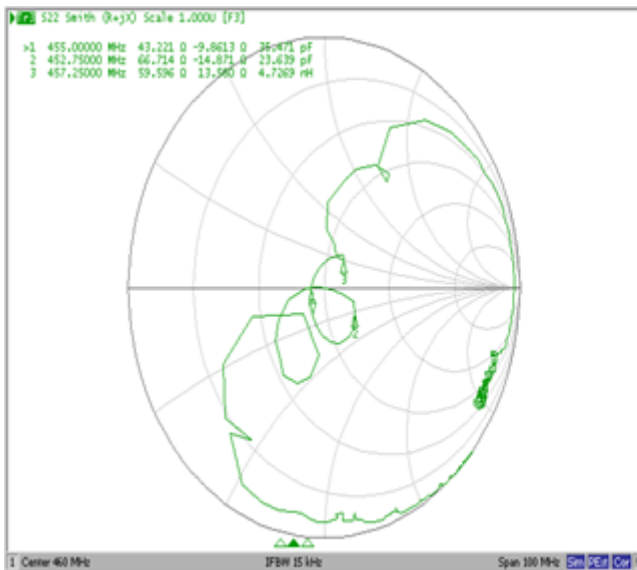
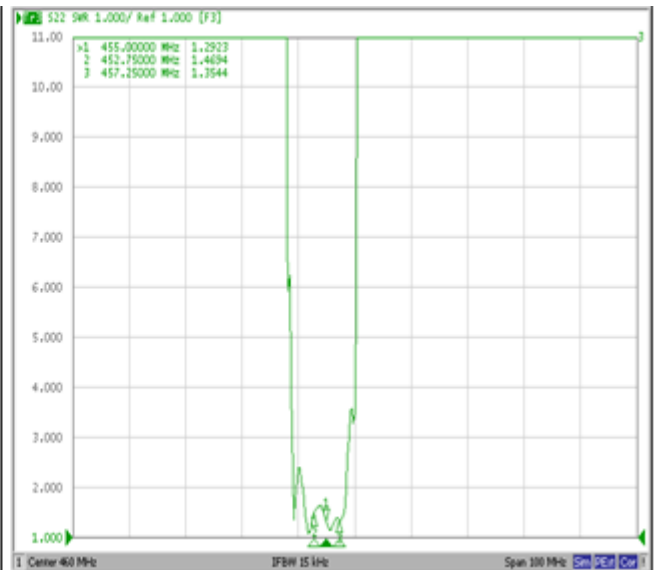
Ant to Rx



Isolation

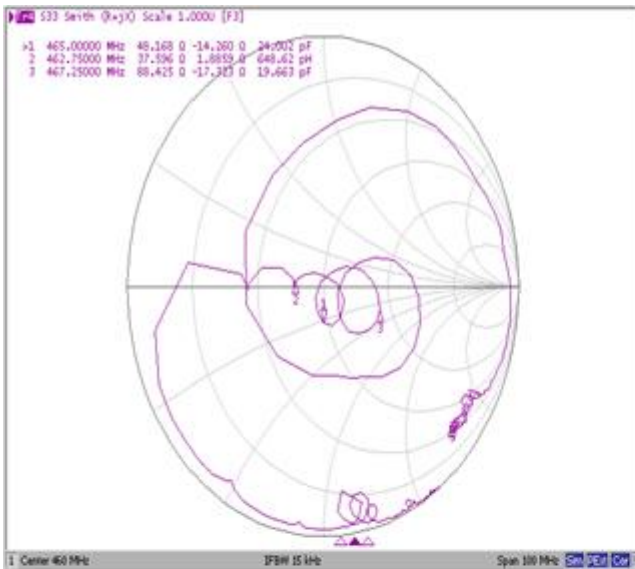


Tx Port

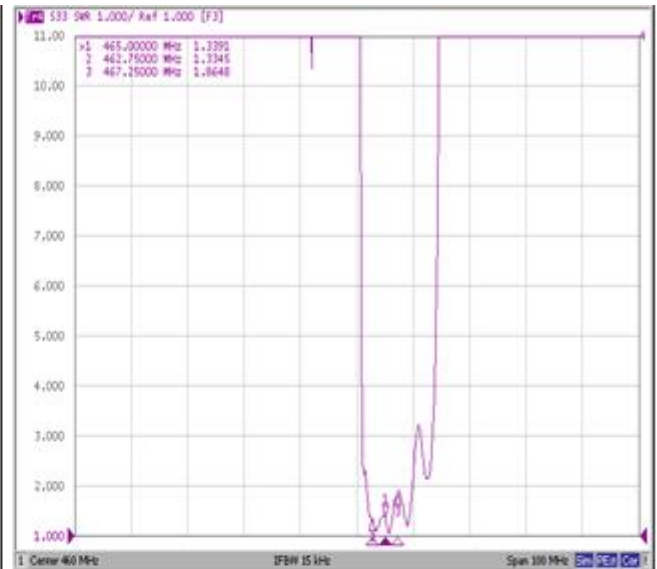
Smith Chart

VSWR


Rx Port

Smith Chart

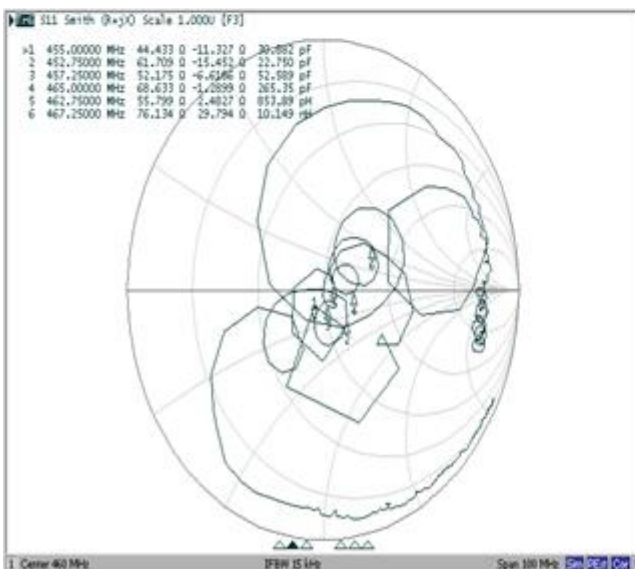


VSWR



Ant Port

Smith Chart



VSWR



Wide Span

